

One-Step Equation Word Problems

Date

Period

- 1) Lisa is cooking muffins. The recipe calls for 7 cups of sugar. She has already put in 2 cups. How many more cups does she need to put in?

5 cups

$$\begin{array}{r} 2 + C = 7 \\ -2 \quad -2 \\ \hline C = 5 \end{array}$$

- 2) At a restaurant, Mike and his three friends decided to divide the bill evenly. If each person paid \$13 then what was the total bill?

\$52

$$\begin{array}{r} 4 \overline{) 52} \\ \underline{52} \\ 0 \end{array} = 13 \left(\frac{4}{1} \right)$$

$$B = \$52$$

- 3) How many packages of diapers can you buy with \$40 if one package costs \$8?

5

$$\begin{array}{r} 8p = 40 \\ \underline{8} \quad \underline{8} \\ p = 5 \end{array}$$

$$\frac{40}{\$8} = 5$$

$$\frac{40}{x} = 8$$

$$x = 5 \text{ pkgs.}$$

- 4) Last Friday Trevon had \$29. Over the weekend he received some money for cleaning the attic. He now has \$41. How much money did he receive?

\$12

$$\begin{array}{r} 29 + x = 41 \\ -29 \quad -29 \\ \hline x = \$12 \end{array}$$

29	m
41	

- 5) Last week Julia ran 30 miles more than Pranav. Julia ran 47 miles. How many miles did Pranav run?

17

30	p
47	

$$\begin{array}{r} J = 30 + P \\ 47 = 30 + P \\ -30 \quad -30 \\ \hline 17 = P \text{ miles} \end{array}$$

- 7) Amanda and her best friend found some money buried in a field. They split the money evenly, each getting \$24.28. How much money did they find?

\$48.56

$$\begin{array}{r} 2 \overline{) 48.56} \\ \underline{48} \\ 56 \end{array} = \$24.28 (2)$$

$$x = \$48.56$$

- 6) How many boxes of envelopes can you buy with \$12 if one box costs \$3?

4

$$\begin{array}{r} 12 \\ \underline{3} \\ 4 \end{array} = 4 \text{ boxes}$$

$$\frac{12}{3} = b$$

$$4 = b$$

$$3b = 12$$

- 8) Jenny wants to buy an MP3 player that costs \$30.98. How much change does she receive if she gives the cashier \$40?

\$9.02

\$30.98	C
40	

$$\begin{array}{r} 30.98 + C = 40 \\ -30.98 \quad -30.98 \\ \hline C = \$9.02 \end{array}$$

- 9) Last Friday Adam had \$22.33. Over the weekend he received some money for cleaning the attic. He now has \$32. How much money did he receive?

\$9.67

$$\begin{array}{r} 22.33 + m = 32.00 \\ -22.33 \quad -22.33 \\ \hline m = 9.67 \end{array}$$

- 10) After paying \$5.12 for a salad, Norachai has \$27.10. How much money did he have before buying the salad?

\$32.22

$$\begin{array}{r} m - 5.12 = 27.10 \\ + 5.12 \quad + 5.12 \\ \hline m = 32.22 \end{array}$$

- 11) A recipe for cookies calls for $3\frac{1}{4}$ cups of sugar. Amy has already put in $3\frac{1}{9}$ cups. How many more cups does she need to put in?

$\frac{5}{36}$

$$\begin{array}{r} 3\frac{1}{9} + c = 3\frac{1}{4} = 3\frac{9}{36} \\ -3\frac{1}{9} \quad -3\frac{1}{9} \quad 3\frac{4}{36} \\ \hline c = \frac{5}{36} \end{array}$$

- 12) Your mother gave you \$13.32 with which to buy a present. This covered $\frac{3}{5}$ of the cost. How much did the present cost?

\$22.20

$$\begin{array}{r} 13.32 = \frac{3}{5}c \\ \left(\frac{5}{3}\right)13.32 = \left(\frac{5}{3}\right)\frac{3}{5}c \\ 22.20 = c \end{array}$$

$$\begin{array}{r} 13.32 \\ \times 5 \\ \hline 66.60 \\ \hline 22.20 \end{array}$$

- 13) If the weight of a package is multiplied by $\frac{5}{7}$ the result is 40.5 pounds. Find the weight of the package.

56.7

$$\begin{array}{r} \left(\frac{7}{5}\right)\frac{5}{7}W = 40.5\left(\frac{7}{5}\right) \\ W = 56.7 \text{ lbs} \end{array}$$

$$\begin{array}{r} 40.5 \\ \times 7 \\ \hline 283.5 \\ \hline 56.7 \end{array}$$

- 14) A stray dog ate 12 of your muffins. That was $\frac{3}{10}$ of all of them! With how many did you start?

40

$$\begin{array}{r} \left(\frac{10}{3}\right)\frac{3}{10}m = 12\left(\frac{10}{3}\right) \\ m = 40 \end{array}$$